

## Multiplexers for Real-Time Data Acquisition



Mitutoyo offers a variety of Multiplexers designed for real-time data input directly from the measuring instruments to a computer via the computer's serial RS-232 input.

### **New! Input Tool for keyboard and for RS-232C.**

The new 1 channel interface cable can make a simple measuring system very easy. Now, we can choose the interface cable to connect through keyboard connector or RS-232C connector.

### **Wireless Measure**

The Wireless Measure multiplexers system does away with the need for cables between Mitutoyo Digimatic gages and the computer. The Wireless Measure system consists of two components; a receiver and a transmitter. The transmitter, which is about matchbox size, connects directly to the gage. Use the data send button to transmit the gage's data to the receiver. The transmitter's range is up to 80 feet.

### **MUX-200 & MUX-110**

The MUX-200 multiplexer is able to collect data from RS-232C output devices, DC Analog output instruments as well as from Mitutoyo digital gages. The MUX-200 is an expandable multiplexer whose base unit consists of 2 Mitutoyo digital gage inputs. Add-on units are available allowing RS-232C input, Analog input, and additional Mitutoyo digital input. The MUX-110 is also an expandable multiplexer allowing Mitutoyo digital gage input only.

### **Digi-Card**

The Digi-Card is a computer accessory allowing up to 3 Mitutoyo gages to be connected directly to the back of a computer. The Digi-Card is an ISA bus compatible computer card designed to be installed into an expansion slot of PC.

### **MIG-2A**

Ideal for fixture applications or random, multi-gage data input, the MIG-2A is an 8 Mitutoyo digital gage inputs multiplexer. Foot switches can be used to send data from each port individually or from all ports at once.

### **MIG-4**

Perfect for multi-gage applications consisting of 4 gages or less.

### **UP-1 & Interbox A/D**

The UP-1 and Interbox A/D allow RS-232C output instruments and Analog output instruments to be incorporated along with Mitutoyo digital gaging when used in conjunction with a MUX-110, MUX-200, or MIG-2A.

# DATA MANAGEMENT

## Specifications

Functions	Digi-Card	UP-1	MIG-2A	MIG-4	MUX-110	MUX-200	Input tool for keyboard	Input tool for RS232C
Gage Capacity	3	1	8	4	2(6 Max.)	2(8 Max.)	1	1
Accepts analog input	—	—	—	—	—	•	—	—
Accepts RS-232C input	—	•	—	—	—	•	—	—
Outputs RS-232C to computer	—	•	•	•	•	•	(Keyboard)	•
Measurement buffer	—	—	•	•	•	•	—	—
Software can poll gages for their readings	•	•	•	•	•	•	—	•
Accepts random gage input	•	—	•	•	•	•	—	—
Foot switch support 937179T	—	—	•	•	—	•	—	—
Expandable	•	—	—	—	•	•	—	—
Will output all gages connected with one command	—	•	•	•	•	•	—	—
No cable between gage and multiplexer	—	—	—	—	—	—	—	—
Variable transmission rate	—	•	•	•	•	•	—	—
Reset	•	•	•	•	•	•	—	—

• States multiplexer is capable of function — States multiplexer is not capable of function

Item	Order No.	Description
Digi-Card (ISA Bus Only)	<b>015873</b> <b>016244</b>	Half length ISA Bus Compatible computer card for IBM and compatibles. Switch box (optional data send switch)
UP-1	<b>982-530</b>  <b>016823</b>	1 Channel input either RS232->Mitutoyo digital or Mitutoyo Digimatic Code Out to computer via RS232 Standard Accessory: AC Adapter
MIG-2A	<b>982-547</b> <b>937179T</b> <b>016823</b>	8 Mitutoyo digital gage inputs Foot switch Standard Accessory: AC Adapter
MIG-4	<b>982-548</b> <b>937179T</b>	4 Mitutoyo digital gage inputs Foot switch
Interbox A/D	<b>982-533A</b>	One channel converter. Converts Analog signal to Mitutoyo digital.
MUX-110	<b>982-534A</b> <b>016823</b>	Base unit has 2 Mitutoyo digital gage inputs which can be expanded to 6 gages Standard Accessory: AC Adapter
2 gage Mitutoyo digital gage Add-on Unit for MUX-110 or MUX-200	<b>50AAA005</b>	2 Mitutoyo digital gage inputs add-on card for the MUX-110 and MUX-200
MUX-200	<b>982-532A</b>  <b>012506</b>	Base unit has 2 Mitutoyo gage inputs. Add-on cards are available to connect additional Mitutoyo gaging, RS-232C output gages, and DC Analog output gages (Column gages, Temp. gages, Pressure gages) Standard Accessory: AC Adapter
1 input RS232 Serial Add-on Unit for MUX-200	<b>50AAA259</b>	1 RS-232C Serial input add-on card for MUX-200. Collects data from RS-232C output devices
1 input DC Analog Add-on Unit for MUX-200	<b>50AAA026</b>	1 DC Analog input add-on card for MUX-200. Collects data from DC Analog output gages (Column gages, Temperature gages)
Input tool for keyboard	<b>264-005</b>	1 Channel input PC with PS/2 style keyboard interface
Input tool for keyboard with footswitch connector	<b>264-009</b>	1 Channel input PC with PS/2 style keyboard interface with footswitch connector (option <b>937179T</b> )
Input tool for RS232C	<b>264-007</b>	1 Channel input connects to RS232C port on PC (D-sub 9 pin connector)
RS-232C cable	<b>057139</b>	Cable to connect multiplexer to computer

Software	Order No.	Description
PIG PAK	<b>64AAS001</b>	Data collection software for MITUTOYO multiplexers (MS-DOS Version)